

WR-112 to SMA Female Waveguide to Coax Adapter UG-51/U Square Cover Standard with 7.05 GHz to 10 GHz H Band in Copper, Paint

The FMWCA1010 is a waveguide to coaxial adapter operating in the H Band with a 7.05 to 10 GHz frequency range. This adapter offers a WR-112 waveguide interface size using a standard Square Cover Flange. The FMWCA1010 is constructed of Copper Alloy and painted to ensure durability. The coaxial connector offered by this adapter uses a SMA Female Nickel Plated Brass Connector.

Configuration

Waveguide Size	WR-112
Flange	UG-51/U Square Cover
RF Connector	SMA Female
Impedance	50 Ohms
Body Geometry	Right Angle

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	7.05		10	GHz
VSWR			1.25:1	

Mechanical Specifications

Size

Length	1.5 in [38.1 mm]
Width	1.875 in [47.63 mm]
Height	1.875 in [47.63 mm]
Weight	0.451 lbs [204.57 g]

RF Connector

Connector Type	SMA Female
Body Material and Plating	Brass, Nickel

Waveguide Interface

Waveguide Type	WR-112
Flange Type	Square Cover
Flange Designation	UG-51/U
Body Material and Plating	Copper, Paint

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

- Values at +25 °C, sea level unless stated otherwise



Features:

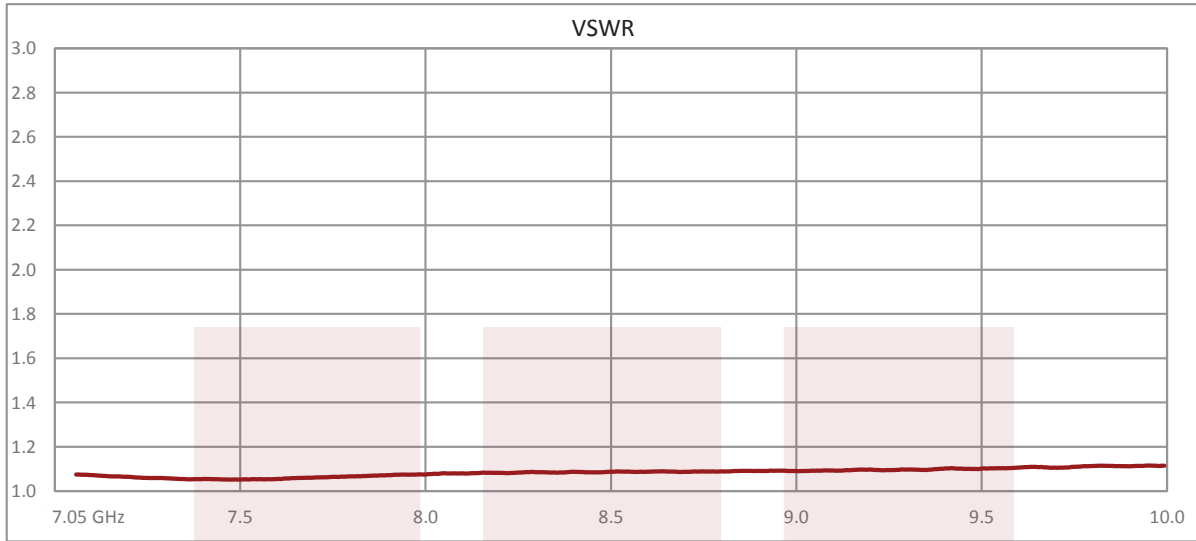
- H Band
- 7.05 to 10 GHz Frequency Range
- WR-112 Waveguide Interface
- Standard UG-51/U Square Cover Flange
- SMA Female RF Interface

Applications:

- Test Benches
- Radar
- Satellite
- Microwave Radio Systems
- Military and Space
- Communication Systems

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Typical Performance Data



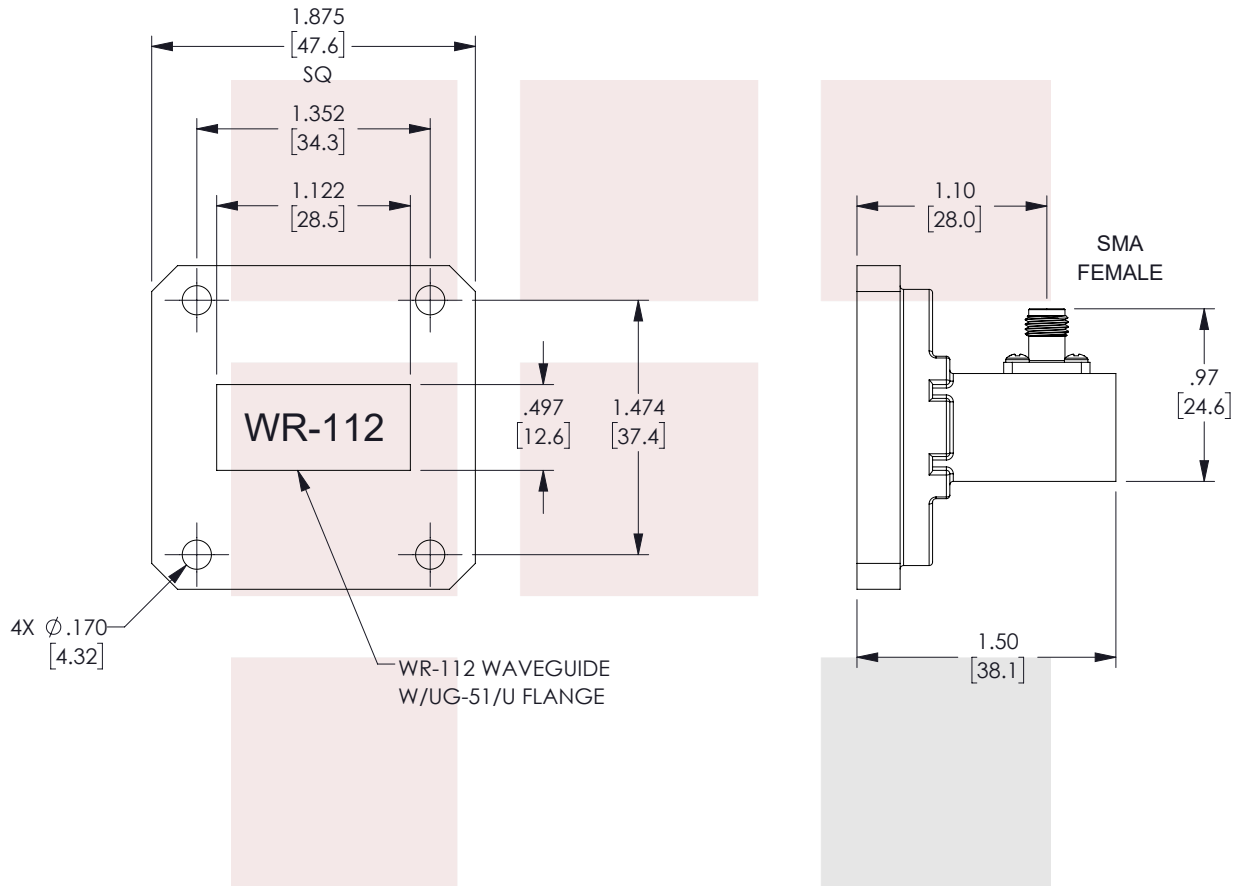
WR-112 to SMA Female Waveguide to Coax Adapter UG-51/U Square Cover Standard with 7.05 GHz to 10 GHz H Band in Copper, Paint from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-112 to SMA Female Waveguide to Coax Adapter UG-51/U Square Cover Standard with 7.05 GHz to 10 GHz H Band in Copper, Paint FMWCA1010](#)

URL: <https://www.fairviewmicrowave.com/wr-112-sma-female-waveguide-coax-adapter-ug51-square-10-ghz-fmw-ca1010-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	PCR PEWCA1010 20220921	10/5/2022	SPONG



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TITLE

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UG-51/U Square Cover Standard with 7.05 GHz to 10
GHz H Band in Copper, Paint

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES: CABLE LENGTH (L) TOLERANCES:

.X = ±.2 [5.08]	FRACTIONS	L ≤ 12 [305] = +1 [25] / -0
.XX = ±.02 [.51]	± 1/32	12 [305] < L ≤ 60 [1524] = +2 [51] / -0
.XXX = ±.005 [.13]	ANGLES ± 1°	60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
		120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
		300 [7620] < L = +5%L / -0

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

SIZE A	CAGE CODE 3FKR5	DRAWN BY DMAY	ITEM NO. FMWCA1010	REV B
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T-Rev.D